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(54) SECURITY GRILLE FRAME SYSTEM

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(57) Claim

1. A security grille frame for attachment to a surround of a window or door, the security grille frame being of extruded metal section, and having in cross section a "U" shaped opening parallel to the plane of the window or door adapted to receive a security grille, a recess adjacent the said "U" shaped opening, said recess opening at right angles to the plane of the window or door and adapted to receive and locate an insect screen, at least a pair of hollow sections adjacent said recess and means for attaching said security grille frame comprises a channel frame in cross section having a channel to slidably receive the edges of said security grille, the base of the channel frame being attached to the door or window surround by screws, rivets or other fastening means.

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COMPLETE SPECIFICATION

(ORIGINAL)

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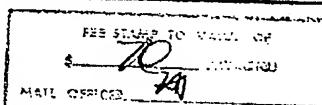
Care of COLLISON & CO., 97 King William Street,
ADELAIDE, South Australia, 5000.

Complete Specification for the invention entitled:

"SECURITY GRILLE FRAME SYSTEM"

LODGED AT SUB-OFFICE
22 MAR 1984
Adelaide

The following statement is a full description of this invention, including the best method of performing it known to me.



2.

This invention relates to a security grille frame, more particularly for a security grille for a window, the security grille frame including a security grille and also an insect screen.

5. Various forms of frames for security grilles for attachment to windows have been devised, but often these are satisfactory for only one or two particular types of window openings, and are not generally universal in use.

10. It is an object of this invention to provide a frame for a security grille particularly adapted for a window which is more universal in application.

In order to more fully describe the invention reference will now be made to the accompanying figure of the drawings in which:-

15. Fig. 1 shows in cross section the main security frame, and

Fig. 2 shows in cross section a security grille frame installed in a window opening, and

20. Fig. 3 shows an alternative supporting frame.

As shown in the Figures the main frame comprises an aluminium extrusion preferably of the shape shown.

25. The frame 1 includes on one end an aperture 2 of "U" shaped configuration parallel to the plane of the window which is adapted to receive the security grille 5, the grille preferably being formed of metal,

3.

the design of the grille itself being of any suitable pleasing and aesthetic design while providing the desired security. The "U" shaped opening has a pair of abutments 3 on the side walls 4 to securely engage

5. the side frame of the grille 5 itself.

The base 6 of the "U" shaped opening 2 forms a side wall of a recess 7 at right angles to the plane of the window, the recess 7 being provided with inwardly directed saw-teeth 8 adapted to engage

10. the flexible insect screen 9 which is secured in a normal manner by flexible bead or tube 10.

Adjacent the recess 7 there is provided a rectangular box-like section 11, and adjacent this box-like section 11 there is a further rectangular section 12 adjacent end face 14.

The end face 14 is preferably formed with a concave section, or alternatively a section forming a recess for the purpose to be described later.

20. Figure 2 shows the security grille frame attached to a window surround showing two different forms of supporting frames.

The supporting frame 15 is a channel member having a recess 16 of dovetail or other configuration in the bottom in which the fixing screws 17 or bolts are inserted so that these would not foul the security frame grille 1, which could be adapted to slide in the channel of frame 15.

4.

The frame 15 has an outstanding leg 18 which can be attached to a locking member 19 which can be attached to the main frame 1, by a screw 20 or fastening member screwing through the aperture 13

5. into the box section 12.

A similar form of channel member 21, but without the outstanding flange or leg is also shown in Fig. 2, which channel member 21 can be attached by a screw 22 or other means to the frame of the window.

10. Fig. 3 shows a further form of channel member 23 which has a leg 24 extending parallel to one side of the channel, which leg 24 can be used for fastening the channel 23 to a window frame or the like. The leg 24 can be positioned either on one side as shown, or could be positioned anywhere across the base of the channel depending on the specific installation required.

15. Channel 23 also has a recess 16 at the bottom, whereby a fastening screw can be passed through this channel through the base thereof for fastening to the window frame, the recess 16 and the recessed portion 14 in the main frame, ensuring that the fastening screws will not foul the main security frame.

20. It is to be realised that the recess 14 in the main frame while being shown as arcuate could be of other shapes, such as a dove-tail shape, or even a square recess, the recess 16 in the channel frame also being of any desired shape other than dove-tail, the two recesses 14 and 16 ensuring that the screw heads do not foul the security grille frame in any installation.

5.

The main frame itself can be fastened directly to any supporting frame on the window or the like by passing screws or bolts through the hollow sections, 11, 12, so that it will be seen that the unit is 5. more universal in its application and can be attached to various forms of window openings.

Although the security grille frame is especially suited for installation in window frames, it is to be noted that the security grille frame can be attached in other situations, such as to door frames, particularly sliding doors. The frame in all instances may be screwed to the door or window frame, or if such is of aluminium may be rivetted thereto.

Although one form of the unit has been described in some detail it is to be realised that various modifications could be made thereto without departing from the inventive concept.

CLAIMS

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A security grille frame for attachment to a surround of a window or door, the security grille frame being of extruded metal section, and having in cross section a "U" shaped opening parallel to the plane of the window or door adapted to receive a security grille, a recess adjacent the said "U" shaped opening, said recess opening at right angles to the plane of the window or door and adapted to receive and locate an insect screen, at least a pair of hollow sections adjacent said recess and means for attaching said security grille frame comprises a channel frame in cross section having a channel to slidably receive the edges of said security grille, the base of the channel frame being attached to the door or window surround by screws, rivets or other fastening means.
2. A security grille frame as defined in Claim 1 wherein one of said pair of hollow section is adjacent said recess and is a closed hollow section, and the other hollow section is adjacent said one hollow section, said other hollow section being at the outer edge of said security grille frame and is formed with an outer edge having a peripheral recess.
3. A security grille frame as defined in Claim 2 wherein said channel frame is attached by the fastening means passing through the base of the channel, the base of the channel being formed with a recess to contain the head of the fastening means.



4. A security grille frame as defined in Claim 3 wherein said channel frame has a leg extending away from the channel frame in the direction of the said recess, safety locking means being attached to said leg and to the security grille frame.
5. A security grille frame as defined in Claim 3 wherein said channel frame has a leg extending from said channel frame in the direction away from said channel frame parallel to the plane of the door or window which said leg may be attached to a surround of the door or window.
6. A security grille frame as defined in Claim 2 wherein said means for attaching said security grille frame to said window or door surround comprising fastening means passing into at least one said hollow section and into the window or door surround.
7. A security grille frame substantially as hereinbefore described with reference to and as illustrated in the accompanying drawings.

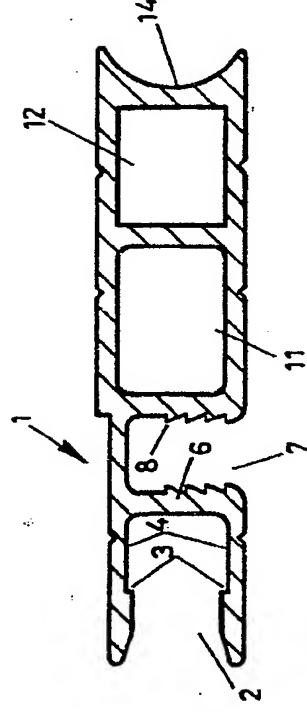
DATED this 12th day of March 1987.

MALOUF NOMINEES PTY. LTD.,
By their Patent Attorneys,
COLLISON & CO.



DRAWINGS

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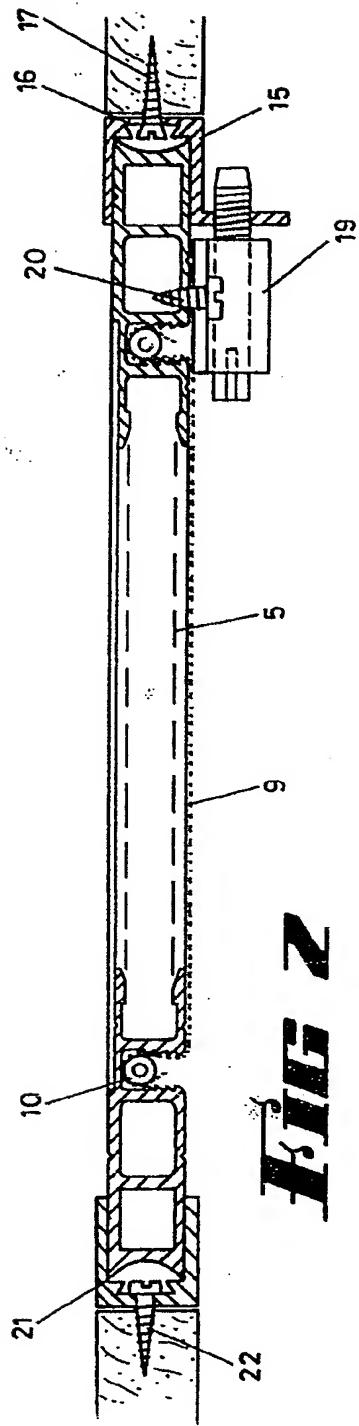
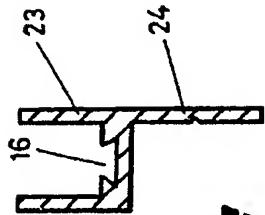


FIG. 2



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